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1-800-Belden1



General Description:

Category 6, 23 AWG bonded pairs solid bare copper conductors, non-plenum, polyolefin insulation, skew 10.0ns/100m nominal, rip cord, PVC jacket.

Usage (Overall)

Suitable Applications: Category 6, UTP Based Video Applications, and KVM

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

Total Number of Conductors: 8

Insulation

Insulation Material:

Insulation Material
PP - Polypropylene

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 9.271 x 4.191 mm

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 43.158 Kg/Km

Max. Recommended Pulling Tension: 222.410 N

Min. Bend Radius/Minor Axis: 44.450 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

7989R Multi-Conductor - 4-Pair UTP Cable for RGB Video

EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Applicable Patents:

Country
www.belden.com/p

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7989P

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

Maximum Capacitance Unbalance (pF/100 m): 49.2

Nominal Velocity of Propagation:

VP (%)
70

Typical Delay Skew:

Delay Skew (ns/m)
0.100

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9

Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
3

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.0	74.3	72.3	70.3	20.0
4	3.8	65.3	63.3	59.5	23.0
8	5.3	60.8	58.8	53.4	24.5
10	6.0	59.3	57.3	51.3	25.0
16	7.6	56.3	54.3	46.7	25.0
20	8.5	54.8	52.8	44.3	25.0
25	9.5	53.4	51.4	41.8	24.3
31.25	10.7	51.9	49.9	39.2	23.6
62.5	15.4	47.4	45.4	30.0	21.5
100	19.8	44.3	42.3	22.5	20.1
155	25.2	41.5	39.5	14.3	18.8
200	29.0	39.8	37.8	8.8	18.0
250	32.8	38.3	36.3	3.5	17.3

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	67.8	64.8
4	100 ± 15	55.7	52.7
8	100 ± 15	49.7	46.7
10	100 ± 15	47.8	44.8
16	100 ± 15	43.7	40.7
20	100 ± 15	41.7	38.7
25	100 ± 15	39.8	36.8

METRIC MEASUREMENT VERSION

7989R Multi-Conductor - 4-Pair UTP Cable for RGB Video

31.25	100 ± 15	37.9	34.9
62.5	100 ± 15	31.8	28.8
100	100 ± 15	27.8	24.8
155	100 ± 22	23.9	20.9
200	100 ± 22	21.8	18.7
250	100 ± 32	19.8	16.8

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7989R 0131000	1,000 FT	32.000 LB	BLUE, DARK	C	4 PR #23 PP PVC

Notes:

C = CRATE REEL PUT-UP.

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